



PTO/SB/08A (08-03)

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<b>Substitute for form 1449/PTO</b> <b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/602,998		
		Filing Date	June 23, 2003		
		First Named Inventor	Thomas M. Brennan		
		Art Unit	1645 1637		
		Examiner Name	Unknown Chris Babic		
Sheet	1	of	27	Attorney Docket Number	28690-705.302

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear ...
		Number-Kind Code <sup>2</sup> (if known)			
AMB		4,683,202	07/28/87	Mullis	
		4,834,946	05/30/89	Levin	
		5,143,854	09/01/92	Pirrung, et al.	
		5,202,231	04/13/93	Dramanac, et al.	
		5,412,087	05/02/95	McGall, et al.	
		5,445,934	08/29/95	Fodor, et al.	
		5,445,943	08/29/95	Hoenes	
		5,474,796	12/12/95	Brennan	
		5,489,678	02/06/96	Fodor, et al.	
		5,492,806	02/20/96	Dramanac, et al.	
		5,525,464	06/11/96	Dramanac	
		5,545,568	08/13/96	Ellman	
		5,556,749	09/17/96	Mitsushashi, et al.	
		5,571,639	11/05/96	Hubbell, et al.	
		5,614,608	03/25/97	Krchnak, et al.	
		5,650,277	07/22/97	Navot, et al.	
		5,667,972	06/16/97	Dramanac, et al.	
		5,679,773	10/21/97	Holmes	
		5,691,141	11/25/97	Köster	

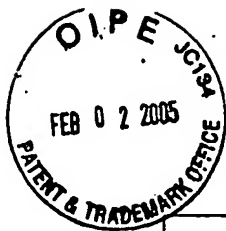
**FOREIGN PATENT DOCUMENTS**

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
AMB		EP 717113A2	06/19/96	Affymetrix, Inc.		
		WO 92/15712	09/17/92	Molecular Tools, Inc.		
		WO 93/09250	05/13/93	Adelaide Children's Hospital University of South Australia		
		WO 93/17126	09/02/93	The Public Health Research Institute of the City		

Examiner Signature		Date Considered	4/12/05
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				Filing Date	June 23, 2003
				First Named Inventor	Thomas M. Brennan
				Art Unit	1645/637
				Examiner Name	Unknown Chris Basic
Sheet	2	of	27	Attorney Docket Number 28690-705.302	

### U.S. PATENT DOCUMENTS

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		Number-Kind Code <sup>2</sup> (if known)			
CM/3		5,695,940	12/09/97	Dramanac, et al.	
		5,700,637	12/23/97	Southern	
		5,700,642	12/23/97	Monoforte, et al.	
		5,710,028	01/20/98	Eyal, et al.	
		5,739,386	04/14/98	Holmes	
		5,744,305	04/28/98	Fodor, et al.	
		5,800,992	09/01/98	Fodor, et al.	
		5,830,655	11/03/98	Monoforte, et al.	
		5,837,832	11/17/98	Chee, et al.	
		5,846,943	12/08/98	Hindsgaul, et al.	
		5,858,653	01/12/99	Duran, et al.	
		5,858,659	01/12/99	Sapolsky, et al.	
		5,871,928	02/16/99	Fodor, et al.	
		5,888,819	03/30/99	Goelet, et al.	
		5,889,165	03/30/99	Fodor, et al.	
		5,917,016	06/29/99	Holmes	
		5,919,626	07/06/99	Shi, et al.	
		5,922,534	07/13/99	Lichtenwalter	
		5,927,547	07/27/99	Papen, et al.	

### FOREIGN PATENT DOCUMENTS

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CM/3		WO 95/11995	05/04/95	Affymax Technologies N.V.		
		WO 97/28282	08/	Stratagene		
		WO 97/43447	11/20/97	Motorola		
		WO 97/45730	12/04/97	Biodx		
		WO 98/09735	03/12/98	International Business machine Corporation		

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				First Named Inventor	Thomas M. Brennan
				Art Unit	<del>1645</del> 1637
Examiner Name	Unknown <i>Chris Babic</i>				
Sheet	3	of	27	Attorney Docket Number	28690-705.302«CaseNumber»

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<i>AMB</i>		5,929,208	07/27/99	Heller, <i>et al.</i>	
		5,972,619	10/26/99	Dramanac, <i>et al.</i>	
		5,985,551	11/16/99	Brennan	
		5,985,557	11/16/99	Prudent, <i>et al.</i>	
		5,985,761	11/16/99	Saprks, <i>et al.</i>	
		6,001,567	12/14/97	Brow, <i>et al.</i>	
		6,018,041	01/25/00	Dramanac, <i>et al.</i>	
		6,025,136	02/15/00	Drmanac	
		6,028,189	02/22/00	Blanchard	
		6,030,782	02/29/00	Anderson, <i>et al.</i>	
		6,040,138	03/21/00	Lockhart, <i>et al.</i>	
		6,043,031	03/28/00	Köster, <i>et al.</i>	
		6,054,270	04/25/00	Southern	
		6,074,823	06/13/00	Köster	
		6,083,763	07/04/00	Balch	
		6,090,995	07/18/00	Reich, <i>et al.</i>	
		6,103,479	08/15/00	Taylor	
		6,197,506	03/06/01	Fodor, <i>et al.</i>	
		6,210,894	04/03/01	Brennan	

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>2</sup> (if known)				
<i>AMB</i>		WO 99/21957	05/06/99	The University of North Carolina at Chapel Hill		
		WO 98/22487	05/28/98	Synsorb Biotech, Inc.		
		WO 98/28438	07/02/98	Diatech Pty. Ltd.		
		WO 98/30883	07/16/98	Sheldon, Edward L.		

Examiner Signature	<i>[Signature]</i>	Date Considered	4/12/05
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			Examiner Name	Unknown Chris Basz	
Sheet	4	of	27	Attorney Docket Number	28690-705.302

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CMBS		6,291,183	09/18/01	Pirrung, et al.	
		6,309,822	10/30/01	Fodor, et al.	
		6,309,823	10/30/01	Cronin, et al.	
		6,309,831	10/30/01	Goldberg, et al.	
		6,310,189	10/30/01	Fodor, et al.	

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CMBS		WO 98/38490	09/03/98	Biodx, Inc.		
		WO 98/38846	09/11/98	Affymetrix, Inc.		
		WO 98/41531	09/24/98	University of Washington		
		WO 98/46247	10/22/98	Wisconsin Alumni Research Foundations		
		WO 98/47003	10/22/98	United States of America		
		WO 98/50403	11/12/98	THIRD WAVE TECHNOLOGIES, INC.		
		WO 98/54362	12/03/98	The Perkin-Elmer Corporation		
		WO 98/56954	12/17/98	Affymetrix, Inc.		
		WO 99/05308	02/04/99	RAPIGENE, INC.		
		WO 99/06593	02/11/99	Sarnoff Corporation		
		WO 99/06834	02/11/99	IXSYS, Incorporated		
		WO 99/07888	02/18/99	Bulynk, Martha L.		
		WO 99/09073	02/25/99	Akazo Nobel N.V.		
		WO 98/21221	05/22/98	Synsorb Biotech, Inc.		
		WO 94/11530	05/26/94	Trustees of Boston University		
		WO 93/17136	09/02/93	The Dow Chemical Company		
		WO 98/33586	08/06/98	Protogene Laboratories, Inc.		

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CMEZ		WO 99/14228	03/25/99	Affymetrix, Inc		
		WO 99/27137	06/03/99	Orchid Biocomputer, Inc.		
		WO 99/37812	07/29/99	Orchid Biocomputer, Inc		
		WO 99/39004	08/05/99	The government of the United States of America, Secretary, Department of Health and Human Services		
		WO 99/47701	09/23/99	November AG Novus Medicatus Bertling Gesellschaft fur Molekulare Medizin		
		WO 99/54509	10/28/99	Affymetrix, Inc.		
		WO 99/58708	11/18/99	Rosetta Inpharmatics, Inc		
		WO 00/03246	01/20/00	Cellomics, Inc.		
		WO 00/17624	03/30/00	Cellomics, Inc.		
		WO 00/17643	03/30/00	Cellomics, Inc.		
		WO 00/50872	08/31/00	Cellomics, Inc.		

Examiner Signature		Date Considered	4/12/05
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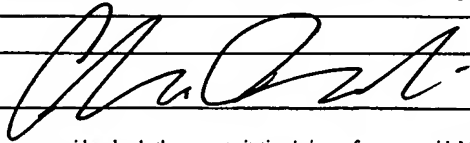
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				Examiner Name	<del>Unknown</del> Chris Basic	
Sheet	6	of	27	Attorney Docket Number		28690-705.302

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
CMB		ABRAMSON et al., Nucleic acid amplification technologies, Curr. Opin. Biotechnol., 1993, pp.41-47, vol. 4	
		ABRAVAYA et al., Detection of poinT mutations with a modified ligase chain reaction, Nucleic Acids Res., 1995, pp 675-682, vol 23	
		ADINOLFI et al., Solid Phase Synthesis of Oligosaccharides, Tetrahedron Lett., 1996, pp 5007-5010, 37 (28)	
		ALBERICIO et al., Covergent Solid-Phase Peptide Synthesis, Methods Enzymol, 1997, pp 313-316, vol 289	
		ANDRES et al., Transistion metal mediated reactions in combinatorial synthesis, Curr. Opin. Chem. Biol., 1998, pp353-362, vol 2	
		ATHERTON et al., Solid Phase Peptide Synthesis, A practical approach, IRL press, 1989,	
		AUSUBEL et. al., Current Protocols in Molecular Biology, John Wiley & Sons, 1989, vol. 1-2	
		BEIER et. al., Versatile Derivatisation of solid support media for covalent bonding on DNA-microchips, Nucleic Acids Res., 1999, pp 1970-1977, vol. 27 (9)	

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				Filing Date	June 23, 2003	
				First Named Inventor	Thomas M. Brennan	
				Art Unit	1645 1637	
				Examiner Name	Unknown Chris Basic	
Sheet	7	of	27	Attorney Docket Number		28690-705.302

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
CMB		BLANCHARD et. al., Syntheic DNA Arrays, Biosensors and Bioelectronics, 1996, pp 687-690, vol. 11	
		BLIXT et. al., Solid-Phase Enzymatic Synthetic of a Sialy Lewis X Tetrassaccharide on a Sepharose Matrix, J. Org. Chem., 1998, pp.2705-2710, vol. 63	
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		BULYK et. al., Quantifying DNA-protein interactions by double-stranded DNA arrays, Nature Biotechnology, 1999, 573-577, 17	
		BURG et. al., Real-Time Fluorescence Detection of RNA Amplified by QB Replicase, Anal. Biochem., 1995, pp263-272, vol. 230	
		CANTOR and SCHIMMEL et. al., Part 1: The conformation of biological macromolecules, Biophysical Chemistry, San Francisco, W.H. Freeman, 1980	

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		CZARNIK, et. al., Guest Editorial, Accounts Chem. Rev., 1996, pp112-170, vol. 29	
		DANISHEFSKY et. al., A Strategy for the Solid-Phase Synthetic of Oligosaccharides, Science, 1993, pp1307-1309, vol 260	
		DERISI, et. al., Exploring the Metabolic and Genetic Control of Gene Expression on A Genomic Scale, Science, 1997, pp680-686, vol 278	
		DE WILDT et. al., Antibody arrays for high-throughput screening of antibody-antigen interactions, Nature, 2000, pp 989, vol. 18	
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				Art Unit	<del>4643</del> 1637	
				Examiner Name	Unknown <i>Chris Babic</i>	
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		ECKERT et al., DNA Polymerase Fidelity and the Polymerase Chain Reaction, PCR Methods and Applications, 1991, pp17, vol 1	
		EDMAN et al., Electric field directed nucleic acid hybridization on microchips, Nucleic Acids Research, 1997, pp 4907-4914, vol. 25(24)	
		EISENBERG et al., Protein function in the post-genomic era, Nature, 2000, pp 823-826, vol. 405	
		FODOR et al., Light-Directed, Spatially Addressable Parallel Chemical Synthesis, Science, 1991, pp 767-773, vol 251	
		DE WILDT et. al., Antibody arrays for high-throughput screening of antibody-antigen interactions, Nature, 2000, pp 989, vol. 18	

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Examiner Name	Unknown Chris Basic				
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		FODOR et al., Light-Directed, Spatially Addressable Parallel Chemical Synthesis, Science, 1991, pp 767-773, vol 251	
		FRUCHTEL, Organic Chemistry and Solid Supports, Angew. Chem. Int. Ed. Engl., 1996, pp17-42, vol. 35	

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				Examiner Name	Unknown Chris Basic	
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amg		GELFAND et al., ASDB: database of alternatively spliced genes, Nucleic Acids Res., 1999, pp.301-302, vol. 27(1)	
		GERHOLD et al, DNA chips: promising toys have become powerful tools, TIBS, 1999, pp168-173, vol. 24	
		GIBSON et al, A Novel Method for Real Time Quantitative RT-PCR, Genome Res., 1996, pp995-1001, vol. 6	
		GIESEN et al., A formula for thermal stability (Tm) prediction of PNA/DNA duplexes, Nucleic Acids Research, 1998, pp. 5004-5006, vol. 26(21)	
		GOOD et al., Antisense inhibition of gene expression in bacteria by PNA targeted to mRNA, Nature Biotechnology, 1998, pp. 355-358, vol. 16	
		GORDON et al., Combinatorial Chemistry and Molecular Diversity in Drug Discovery, 1997, John Wiley & Son, New York	
		GORDON et al., Applications of Combinatorial Technologies to Drug Discovery. 2. Combinatorial Organic Synthesis, Library Screening Strategies, and Future Directions, J. Med. Chem., 1994, pp 1385-1401, vol. 37	
		GRANT et al., Human acetyltransferase polymorphisms, Mut. Res., 1997, pp 61-70, vol. 376	

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CM7		GREENBERG et al., Cleavage of Oligonucleotides from Solid-Phase Using o-Nitrobenzyl Photochemistry, J. of Org. Chem., 1994, pp 746-753, vol. 59	
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		GURURAJA et al., Solid-Phase Synthesis of Human Salivary Mucin-Derived O-linked Glycopeptide, Lett Pept. Sci., 1996, pp 79-88, vol. 3	
		GUSCHIN et al., Manual Manufacturing of Oligonucleotide, DNA, and Protein Microchips, Anal. Biochem., 1997, pp 203-211, vol. 250	
		HAMMER et al., Practical Approach to Solid-Phase Synthesis of C-terminal Peptide Amides under Mild Conditions Based on a Photolysable Anchoring Linkage, J. Peptide Protein Res., 1990, pp. 31-45, vol. 36	
		HECKEL et al., Oligosaccharide Synthesis on Controlled-Pore Glass as Solid Phase Material, Synlett, 1998, pp. 171-173	

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CM3		HEID et al., Real Time Quantitative PCR, Genome Res., 1996, pp. 986-994, vol. 6	
		HERMKENS et al., Solid-Phase Organic Reactions: A review of the Recent Literature, Tetrahedron, 1996, pp. 4527-4554, vol. 52	
		HIGUCHI et al., Simultaneous Amplification and Detection of Specific DNA Sequences, Bio/Technology, 1992, pp. 413-417, vol. 10	
		HIGUCHI et al., Kinetic PCR Analysis: Real-time Monitoring of DNA Amplification Reaction, Bio/Technology, 1993, pp. 1026-1030, v	
		HOLMES et al., Reagents for Combinatorial Organic Synthesis: Development of a New o-Nitrobenzyl Photoable Linker for Solid Phase Synthesis, J. of Org. Chem., 1995, pp.2318-2319, vol. 60	
		HOLMES et al., Model Studies for New o-Nitrobenzyl Photolabile Linkers: Substituent Effects on the Rates of Photochemical Cleavage, J. of Org. Chem., 1997, pp 2370-2380, vol. 62	
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		ISHIGURO et al., Homogeneous Quantitative Assay of Hepatitis C Virus RNA by Polymerase Chain Reaction in the Presence of a Fluorescent Intercalater, Anal. Biochem., 1995, pp. 207-213, vol. 229	
		ISAKSSON and LANDEGREN, Accessing genomic information: alternatives to PCR, Curr. Opin. Biotechnol., 1999, pp. 11-15, vol. 10	
		ITO et al., Solid-phase oligosaccharide synthesis and related technologies, Curr. Opin. Biotechnol., 1998, pp. 701-708, vol. 2	
		JOOS et al., Covalent Attachment of Hybridizable Oligonucleotides to Glass Supports, Anal. Chem., 1997, pp 96-101, vol. 247	
		KAHL et al., High-Yielding method for On-Column Derivatization of Protected Oligodeoxy-nucleotides and Its Application to the Convergent Synthesis of 5', 3'-Bis-conjugates, J. of Org. Chem., 1998, pp 4870-4871, vol. 63	

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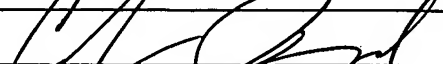
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		KIERZEK et al., Association of 2'-5' oligoribonucleotides, Nucleic Acids Research, 1992, pp 1865-1690, vol. 20(7)	
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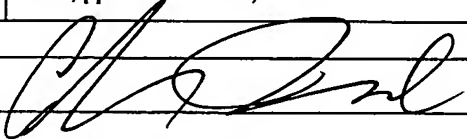
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				Art Unit	<del>1645</del> 1637	
				Examiner Name	<del>Unknown</del> Chris Basic	
Sheet	16	of	27	Attorney Docket Number		28690-705.302«CaseNumber»

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		LANDGREN, et al., Reading Bits of Genetic Information: Methods for Single-Nucleotide Polymorphism Analysis, Genome Research, 1998, 769-776, vol. 8	
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		LLOYD-WILLIAMS, et al., Convergent Solid-phase peptide synthesis, Tetrahedro, 1993, pp 11065-11133, vol. 49	

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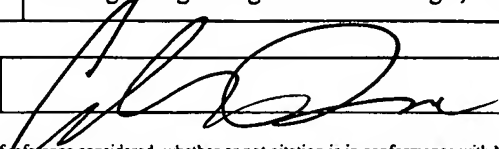
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OMB		SOKOLOV, Primer extension technique for the detection of single nucleotide in genomic DNA, Nucleic Acids Res., 1990, pp3671, vol. 18(12)	
		SOSNOWSKI et al., Rapid determination of single base mismatch mutations in DAN hybrids by direct electric field control, Proc. Natl. Acad. Sci., 1997, pp1119-1123, vol. 94	
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				Application Number	10/602,998
				Filing Date	June 23, 2003
				First Named Inventor	Thomas M. Brennan
				Art Unit	<del>1645</del> 1637
				Examiner Name	<del>Unknown</del> Chris Bobic
Sheet	24	of	27	Attorney Docket Number	28690-705.302

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
CMR		THOMPSON, et al, Synthesis and Applications of Small Molecule Libraries, Chem. Rev., 1996, pp555-600, vol. 96	
		TOSHIMA et al, Recent Progress in O-glycosylation Methods and Its application to Natural Products Synthesis, Chem. Rev, 1993, pp1503-1531, vol. 93	
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		UETZ, et al, A comprehensive analysis of protein-protein interactions in Saccharomyces, Nature, 2000, pp623, vol. 403	
		VAN NESS, et al, The use of oligodeoxynucleotide probes in chaotrope-based hybridization solutions, Nucleic Acids Research, 1991, pp5143-5151, vol. 19(19)	
		VENKATESAN and GREENBERG, Improved Utility of Photolabile Solid Phase Synthesis Supports for the Synthesis of Oligonucleotides Containing 3'-Hydroxyl Termini, J. of Org. Chem, 1996, pp525-529, vol. 61	

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				Examiner Name	Unknown <i>Chris Babic</i>	
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<i>amb</i>		VERMA and ECKSTEIN, MODIFIED OLIGONUCLEOTIDES: Synthesis and Strategy for Users, Annu. Rev. Biochem, 1998, pp99-134, vol. 67	
		WAGNER, et al, Antisense Gene inhibition by oligonucleotides containing C-5 propyne pyrimidines, Science, 1993, pp1510-1513, vol. 260	
		WALKER, Empirical Aspects of Strand Displacement Amplification, PCR Methods Appl., 1993, pp 1-6, vol. 3	
		WANG, Solid Phase Synthesis of Protected Peptide via Photolytic Cleavage of the a-methylphenacyl Ester Anchoring Linkage, J. Org. Chem, 1976, p3258, vol. 41	
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		WANG, D., et al, Large-Scale Identification, Mapping, and Genotyping of Single-Nucleotide Polymorphisms in the Human Genome, Science, 1998, 1077-1082, vol. 280	
		WETMUR, DNA Probes: Applicationis of the Principles of Nucleic Acid Hybridization, Critical Reviews in Biochemistry and Molecular Biology, 1991, pp227-259, vol. 26	

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AMB		WIEDMANN, et al., Ligase Chain Reaction (LCR) - Overview and Applications, PCR Methods Appl, 1994, pp51-64, vol. 3	
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		YOUNG, Biomedical Discovery with DNA Arrays, Cell, 2000, pp9-15, vol. 102	

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CMB		Zheng et al, Solid Support Oligosaccharide Synthesis: Construction of B-Linked Oligosaccharides by Coupling by Glycal Derived Thioethyl Glycosyl Donors, J. Org. Chem., 1998, pp 1126-1130, vol. 63	

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